

<b>Examiner-Initiated Interview Summary</b>	<b>Application No.</b> 10/817,081	<b>Applicant(s)</b> TIWARI ET AL.	
	<b>Examiner</b> Corey M. Broussard	<b>Art Unit</b> 2835	

**All Participants:**

(1) Corey M. Broussard.

(2) \_\_\_\_\_.

**Status of Application:** \_\_\_\_\_

(3) Chuck Hieken (Reg#18,411).

(4) \_\_\_\_\_.

**Date of Interview:** 13 March 2006

**Time:** 9:00am

**Type of Interview:**

☒ Telephonic  
☐ Video Conference  
☐ Personal (Copy given to: ☐ Applicant ☐ Applicant's representative)

Exhibit Shown or Demonstrated: ☐ Yes ☒ No

If Yes, provide a brief description: \_\_\_\_\_

**Part I.**

Rejection(s) discussed:  
*A possible 35 USC 103(a)*

Claims discussed:  
*1-5, 14-16, 19, 22-24, and 27*

Prior art documents discussed:  
*Chiu et al. (PN 5,965,937) in view of Saito (PN 6,025,991)*

**Part II.**

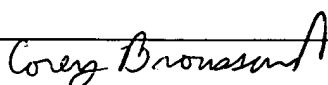
**SUBSTANCE OF INTERVIEW DESCRIBING THE GENERAL NATURE OF WHAT WAS DISCUSSED:**  
*See Continuation Sheet*

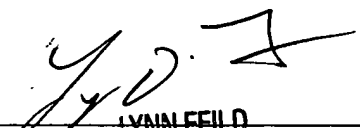
  

**Part III.**

☒ It is not necessary for applicant to provide a separate record of the substance of the interview, since the interview directly resulted in the allowance of the application. The examiner will provide a written summary of the substance of the interview in the Notice of Allowability.  
☐ It is not necessary for applicant to provide a separate record of the substance of the interview, since the interview did not result in resolution of all issues. A brief summary by the examiner appears in Part II above.

  
 \_\_\_\_\_  
 (Examiner/SPE Signature)

  
 LYNN FEILD  
 SUPERVISORY PATENT EXAMINER  
 TECHNOLOGY CENTER 2800  
 \_\_\_\_\_  
 (Applicant/Applicant's Representative Signature – if appropriate)

Continuation of Substance of Interview including description of the general nature of what was discussed: Examiner phoned Applicant's representative in order to propose a formal Examiner's Amendment in order to overcome the prior art and possibly place the application in condition for allowance. The Applicant requested an e-mail of the proposal to help facilitate communication of the proposal to the Applicant. A copy of the resulting e-mail correspondence is attached hereto

**Broussard, Corey**

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**From:** Chuck Hieken [Hieken@fr.com]  
**Sent:** Monday, March 13, 2006 9:45 AM  
**To:** Broussard, Corey  
**Subject:** RE: Amendmend Proposal for Allowance, docket# 02103-600001

Thanks, Mr. Broussard. I have forwarded to our client and hope to have a response within a day or two. Regards.  
Chuck Hieken .

-----Original Message-----

**From:** Broussard, Corey [mailto:Corey.Broussard@USPTO.GOV]  
**Sent:** Monday, March 13, 2006 9:27 AM  
**To:** Chuck Hieken  
**Subject:** Amendmend Proposal for Allowance, docket# 02103-600001

I just spoke on the phone with you proposing an examiner's amendmend to bring this applicantion into condition for allowance.

I must notify you that I am not a primary examiner, and therefore the application will ultimatly be allowed by the primary that signs the case. However I have never had a primary reverse me on a matter of allowability. But the final decision is not mine although I am examining this application I do not have the authority to allow it myself.

The art I would make the proposed rejection over is a 103 over claims 1-5, 14-16, 19, 22-24 and 27 in view of Chiu (PN 5,965,937) modified by Saito (PN 6,025,991). Chiu teaches a heat sink (22) a cover (24) circuit board (14) and a component (12). A spring member (28) biases the back side of the circuit board bringing the component in contact with the heat sink. Chiu lacks a projection as claimed. Saito teaches a projection (4b, 4d, 5d, 4e) formed integrally with the cover for biasing a component of a circuit board. The limitations of the spanning member is not found in the art. I propose an examiner's amendment to include the spaning member in each independent claim.

If I do not recieve a response by the end of this week, I will have to assume you do not wish to accept this proposal and will mail out a non-final office action. However I would appreciate a reply as soon as it is reasonable. Thank you.

Corey Broussard  
AU2835 Jeff 8A20  
571-272-2799

## Broussard, Corey

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**To:** Broussard, Corey  
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Dear Mr. Broussard,

Please make the Examiner's Amendment proposed below so as to place the application in a condition for allowance upon approval by the Primary Examiner. Thank you. Regards.

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## Broussard, Corey

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**From:** Chuck Hieken [Hieken@fr.com]  
**Sent:** Monday, March 13, 2006 4:52 PM  
**To:** Broussard, Corey  
**Subject:** RE: Amendmend Proposal for Allowance, docket# 02103-600001

Thanks Mr. Broussard. We will review and respond tomorrow.

-----Original Message-----

**From:** Broussard, Corey [mailto:Corey.Broussard@USPTO.GOV]  
**Sent:** Monday, March 13, 2006 4:15 PM  
**To:** Chuck Hieken  
**Subject:** RE: Amendmend Proposal for Allowance, docket# 02103-600001

Dear Mr. Hieken,

The claims are directed to two separate versions of the spanning member, one is labeled a element which is basically a stop, and the other a lever. I have tried to include limitations in the independent claims that don't already claim the element or the lever that can read on either without creating 112 issues. I would appreciate it if you would look over and approve this amendment (attached as a html) before I enter it.

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1-5, 14-16, 19, 22-24 and 27 in view of Chiu (PN 5,965,937) modified by Saito (PN 6,025,991). Chiu teaches a heat sink (22) a cover (24) circuit board (14) and a component (12). A spring member (28) biases the back side of the circuit board bringing the component in contact with the heat sink. Chiu lacks a projection as claimed. Saito teaches a projection (4b, 4d, 5d, 4e) formed integrally with the cover for biasing a component of a circuit board. The limitations of the spanning member is not found in the art. I propose an examiner's amendment to include the spanning member in each independent claim.

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1. (Currently Amended) An apparatus comprising:

a housing cover to cause electrical components on a circuit board to engage with at least one component pad of a heat sink, the housing cover being substantially coextensive with the circuit board;

a first and second projection integrally formed from the housing cover, the projections located on the cover to bias the electrical components against the component pad, the projections proximate each other; ~~and~~

a mechanism that permits a vertical displacement of the projections relative to the vertical displacement of the housing cover; and

a spanning member extending over a portion of the first and second projections and in direct contact with the cover.

4. (Canceled)

6. (Currently Amended) The apparatus of claim 41, ~~wherein the further comprising a spanning element member~~ extending along the projections to substantially limit the upward vertical displacement of the projections.

9. (Currently Amended) The apparatus of claim 41, ~~wherein the further comprising a spanning lever member~~ is attached to the first projection and the second projection and to an intermediate pivot therebetween.

19. (Currently Amended) An audio amplifier configured for use in a vehicle, the amplifier comprising:

a heat sink chassis containing a circuit board and configured for dissipating heat from electrical components positioned on the circuit board to ambient surroundings;

a housing cover fitted to the chassis to cause electrical components positioned on a first side of the circuit board to engage with at least one component pad extending from the heat sink chassis;

a first and second projection integrally formed from the housing cover, the projections located on the cover to bias a second side of the circuit board opposite the first side, to cause electrical components to engage the component pad, the projections proximate each other; ~~and~~

a mechanism that permits a vertical displacement of the projection relative to the vertical displacement of the housing cover; and

a spanning member extending over a portion of the first and second projections and in direct contact with the cover.

22. (Currently Amended) A method of manufacturing a housing cover for an amplifier, the method comprising:

integrally forming the cover from a unitary work-piece, the cover comprising:

a first and second projection integrally formed from the housing cover, the projections located on the cover to bias the electrical components against the component pad, the projections formed proximate to each

other; and

a mechanism that permits a vertical displacement of the projection relative to the vertical displacement of the housing cover; and

a spanning member formed over a portion of the first and second projections and in direct contact with the cover.

24. (Canceled)

25. (Currently Amended) The method of claim 23 wherein the ~~cover is formed with a spanning element~~ member ~~extending~~ along the projections to substantially limit the upward vertical displacement of the projections.

26. (Currently Amended) The method of claim 23 wherein the ~~cover is formed with a spanning lever member~~ is attached to the first projection and the second projection and to an intermediate pivot therebetween.

27. (Currently Amended) A method for engaging electrical components on a circuit board of an audio amplifier with a portion of a heat sink, the method comprising:

providing a unitary housing cover, the cover being substantially coextensive with the circuit board, to permit a vertical displacement of integrally formed projections relative to a vertical displacement of the housing cover;

applying the cover to the amplifier housing; engaging a first electrical component with the component pad by biasing an area on a second side of the circuit board, opposite the first side of the circuit board; ~~and~~

engaging a second electrical component with the component pad by biasing an area on the second side of the circuit board, opposite the position of the second electrical component; and

applying a spanning member over a portion of the first and second projections and directly engaging the cover.



## Broussard, Corey

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**From:** Chuck Hieken [Hieken@fr.com]  
**Sent:** Tuesday, March 14, 2006 10:17 AM  
**To:** Broussard, Corey  
**Subject:** RE: Amendmend Proposal for Allowance, docket# 02103-600001

Dear Mr. Broussard,

Good approach. The proposed amendment is acceptable to our client if in claims 1, 19 and 22, last line, change "in direct contact" to --coupled-- and claim 27, last line, delete "directly". This change would cover the situation where a plastic piece were interposed between the spanning member and cover when all other limitations in these claims were met. If this change is acceptable, our client accepts with appreciation the proposed Examiner's Amendment with this change.  
Regards.

Chuck Hieken .

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